



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D3903-1

Job Sheet 195272



Part No: D3903-1

Job Qty: 200 pcs

Part Name: Spacer



Part Weight: 0 lbs

Job Created: 5/16/19

Due Date: 9/6/19

Type: Stock

Status: New

Priority: Medium

Job Tracking No:

Created By: Kimberley Guerin

Description:

Note: DWG REV B IPP RevA: New Issue DD verified by:EC

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard Setup Hrs	Run Hrs	Workcenter/Supplier	Sign-off
125	Purchasing	200 pcs	9/6/19	9/6/19	0.00	0.00	Purchasing - 1	AC SEP 04 2019
							Purchasing - 2	
							Purchasing - 3	
130	Packaging 2-1 - Receive - B4B	200 pcs	9/6/19	9/6/19	0.00	0.00	Packaging 2 - 1 - B4B	
							Packaging 2 - 2 - B4B	
							Packaging 2 - 3 - B4B	
							Packaging 2 - 5 - B4B	AC SEP 04 2019
							Packaging 2 - 4 - B4B	
							Packaging 2 - 6 - B4B	
							Packaging 2 - 7 - B4B	
							Packaging 2 - 8 - B4B	
							Packaging 2 - 9 - B4B	
							Packaging 2 - 10 - B4B	
							Packaging 2 - 11 - B4B	
							Packaging 2 - 12 - B4B	
							Packaging 2 - 13 - B4B	
							Packaging 2 - 14 - B4B	
							Packaging 2 - 15 - B4B	
							Packaging 2 - 16 - B4B	
							Packaging 2 - 17 - B4B	
							Packaging 2 - 18 - B4B	
							Packaging 2 - 19 - B4B	
							Packaging 2 - 20 - B4B	
							Packaging 2 - 21 - B4B	
							Packaging 2 - 22 - B4B	
							Packaging 2 - 23 - B4B	
							Packaging 2 - 24 - B4B	
							Packaging 2 - 25 - B4B	
							Packaging 2 - 26 - B4B	
							Packaging 2 - 27 - B4B	
							Packaging 2 - 28 - B4B	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S211415



Part: D3903-1

Job No: 195272

Serial No/Batch: S211415

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 09/04/19

Plex 5/16/19 3:14 PM Dart.Guerin.Kimberley

5/16/2019

[Dart Hawkesbury] Job Sheet - Guerin, Kimberley

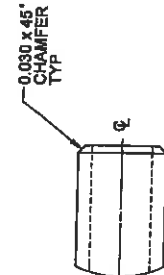
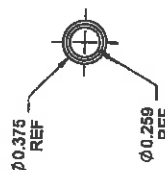
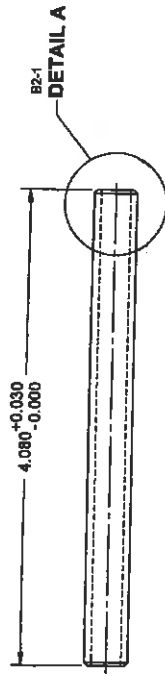
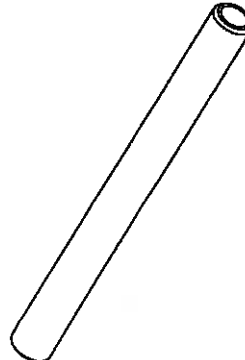
				Packaging 2 - 29 - B4B	
				Packaging 2 - 30 - B4B	
				Packaging 2 - 31 - B4B	
				Packaging 2 - 32 - B4B	
				Packaging 2 - 33 - B4B	
				Packaging 2 - 34 - B4B	
				Packaging 2 - 35 - B4B	
				Packaging 2 - 36 - B4B	
140 QC 6	200 pcs	9/6/19	0.00 0.00	QC 6 - 9	DAS
				QC 6 - 68	81
				QC 6 - 61	9-89
				QC 6 - 40	
SEP 05 2019					
150 Packaging 3-1 - Stock - B4B	200 pcs ✓	9/6/19	0.00 0.00	Packaging 3 - 1 - B4B	
				Packaging 3 - 2 - B4B	
				Packaging 3 - 3 - B4B	LE 001
				Packaging 3 - 4 - B4B	
				Packaging 3 - 5 - B4B	
				Packaging 3 - 6 - B4B	
				Packaging 3 - 7 - B4B	
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
160 QC 21 - SA	200 pcs ✓	9/6/19	0.00 0.00	QC 21 - SA - 21	LE 001
				QC 21 - SA - 70	21
				QC 21 - SA - 53	21
SEP 05 2019					
Part Op 125 - ISSUE P/O: _____ SUPPLIER: E.T.M. INDUSTRIES INC. MANUFACTURE AS PER DWG					
Descriptions: C OF C IS REQUIRED					
150 - (Identify as per dwg & Stock Location: _____) LOCATION : LG001					
160 - (QC21- Final Inspection - Work Order Release)					
Job BOM					
Part / Item	Component Name	Quantity	Operation	Container	
D3903-1P	Spacer	200 Ea (1 ea)	125-Purchasing	521/413	

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Job Allocations					
Operation 125-Purchasing	Component Part D3903-1P	Required 200	Inventory 0	Allocated 0	
Part Specifications					
Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Spacer	0.375Inches + 0.006 - 0.001	0.381 0.374	Diameter	
2	Spacer	0.259Inches + 0.006 - 0.001	0.265 0.258	Diameter	
3	Spacer	4.080Inches ± 0.030	4.110 4.050		
4	Spacer	0.030Inches ± 0.010	0.040 0.020		
5	Spacer	45.000Degrees ± 0.500	45.500 44.500	angle	

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8 7 6 5 4 3 2 1



DETAIL A
SCALE 2X

D3903-1 SPACER

RELEASED
11/27/2015

- NOTES:
- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM SEAMLESS TUBING 0.375" OD x 0.058" WALL PER WW-T-7006 OR AMS 4080 OR QQ-A-200/6 OR QQ-A-225/8 OR ASTM B210 OR ASTM B241 (REF DART SPEC. M6061T0.313W.058)
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK: SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: NONE
 - 7) WEIGHT: 0.02 lbs

REV.	DESCRIPTION	RF	BY	DATE
A	NEW ISSUE			09.06.30
DESIGN		RF		
DRAWN		RF		
CHECKED		RF		
MFG. APPR.				
APPROVED				
DE APPR.				
DATE	09.06.30			

CORRECT TYPE	00.375 WPS	00.375 (2N 10-1)	RF	09.06.30
NEW ISSUE			RF	09.06.30
DESCRIPTION			BY	DATE
DART AEROSPACE USA, INC.				
PORT HADLOCK, WA				
DRAWING NO.	D3903			
TITLE	SPACER			
REV. B				
SHEET 1 OF 1				
SCALE				
NTS				

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ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE USA, INC.



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043487



Supplier: ETM001-VC
E.T.M. Industries Inc.
310 Hall Avenue, Box 610
Renfrew
ON
K7V 4E7 Canada
Phone: 613-432-6136
Fax: 613-432-8212

PO No: POHB043487
PO Date: 5/17/19
Due Date: 5/15/20
Purchase Order Revision:
Revision Date:
Ship-To Contact: Phone: .

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	195270	D2579P			Crossbolt Spacer : as per Dwg D2579 RevE	Firmed	-	9/6/19	50 Ea	0 Ea	50 Ea	\$2.90/Ea 0.59 \$ VS	\$145.00
2	195283	D2579P			Crossbolt Spacer : as per Dwg D2579 RevE	Firmed	-	11/15/19	50 Ea	0 Ea	50 Ea	\$2.90/Ea	\$145.00
3	195294	D2579P			Crossbolt Spacer : as per Dwg D2579 RevE	Firmed	-	2/14/20	50 Ea	0 Ea	50 Ea	\$2.90/Ea	\$145.00
4	195305	D2579P			Crossbolt Spacer : as per Dwg D2579 RevE	Firmed	-	5/15/20	50 Ea	0 Ea	50 Ea	\$2.90/Ea	\$145.00
5	195271	D3681-1P			Spacer : as per Dwg D3681-1 RevA	Firmed	-	9/6/19	250 Ea	0 Ea	250 Ea	\$3.75/Ea 2.29 \$ VS	\$937.50
6	195284	D3681-1P			Spacer : as per Dwg D3681-1 RevA	Firmed	-	11/15/19	250 Ea	0 Ea	250 Ea	\$3.75/Ea	\$937.50
7	195295	D3681-1P			Spacer : as per Dwg D3681-1 RevA	Firmed	-	2/14/20	250 Ea	0 Ea	250 Ea	\$3.75/Ea	\$937.50

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PURCHASE ORDER

POHB043487



Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
8	195306	D3681-1P			Spacer : as per Dwg D3681-1 RevA	Firmed	-	5/15/20	250 Ea	0 Ea	250 Ea	\$3.75/Ea	\$937.50
9	195272	D3903-1P			Spacer : as per Dwg D3903-1 RevB	Firmed	-	9/6/19	200 Ea	0 Ea	200 Ea	\$3.75/Ea	\$750.00
10	195285	D3903-1P			Spacer : as per Dwg D3903-1 RevB	Firmed	-	11/15/19	200 Ea	0 Ea	200 Ea	\$3.75/Ea	\$750.00
11	195296	D3903-1P			Spacer : as per Dwg D3903-1 RevB	Firmed	-	2/14/20	200 Ea	0 Ea	200 Ea	\$3.75/Ea	\$750.00
12	195307	D3903-1P			Spacer : as per Dwg D3903-1 RevB	Firmed	-	5/15/20	200 Ea	0 Ea	200 Ea	\$3.75/Ea	\$750.00
13	195273	D3490-1P			Crossbolt Spacer : as per Dwg D3490-1 RevA	Firmed	-	9/6/19	100 Ea	0 Ea	100 Ea	\$3.90/Ea	\$390.00
14	195286	D3490-1P			Crossbolt Spacer : as per Dwg D3490-1 RevA	Firmed	-	11/15/19	100 Ea	0 Ea	100 Ea	\$3.90/Ea	\$390.00
15	195297	D3490-1P			Crossbolt Spacer : as per Dwg D3490-1 RevA	Firmed	-	2/14/20	100 Ea	0 Ea	100 Ea	\$3.90/Ea	\$390.00
16	195308	D3490-1P			Crossbolt Spacer : as per Dwg D3490-1 RevA	Firmed	-	5/15/20	100 Ea	0 Ea	100 Ea	\$3.90/Ea	\$390.00
17	195275	D2743P			Crossbolt Spacer : as per Dwg D2743 RevB	Firmed	-	9/6/19	250 Ea	0 Ea	250 Ea	\$2.95/Ea	\$737.50

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PURCHASE ORDER
POHB043487



Items													
Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
18	195287	D2743P			Crossbolt Spacer : as per Dwg D2743 RevB	Firmed	-	11/15/19	250 Ea	0 Ea	250 Ea	\$2.95/Ea	\$737.50
19	195298	D2743P			Crossbolt Spacer : as per Dwg D2743 RevB	Firmed	-	2/14/20	250 Ea	0 Ea	250 Ea	\$2.95/Ea	\$737.50
20	195309	D2743P			Crossbolt Spacer : as per Dwg D2743 RevB	Firmed	-	5/15/20	250 Ea	0 Ea	250 Ea	\$2.95/Ea	\$737.50
21	195276	D2649P			Crossbolt Spacer : as per Dwg D2649 RevB1	Firmed	-	9/6/19	75 Ea	0 Ea	75 Ea	\$2.25/Ea 1.39 \$ US	\$168.75
22	195288	D2649P			Crossbolt Spacer : as per Dwg D2649 RevB1	Firmed	-	11/15/19	75 Ea	0 Ea	75 Ea	\$2.25/Ea	\$168.75
23	195299	D2649P			Crossbolt Spacer : as per Dwg D2649 RevB1	Firmed	-	2/14/20	75 Ea	0 Ea	75 Ea	\$2.25/Ea	\$168.75
24	195310	D2649P			Crossbolt Spacer : as per Dwg D2649 RevB1	Firmed	-	5/15/20	75 Ea	0 Ea	75 Ea	\$2.25/Ea	\$168.75
25	195277	D3275-1P			Crossbolt Spacer : as per Dwg D3275-1 RevA1	Firmed	-	9/6/19	62 Ea	0 Ea	62 Ea	\$2.25/Ea 1.03 \$ US	\$139.50
26	195289	D3275-1P			Crossbolt Spacer : as per Dwg D3275-1 RevA1	Firmed	-	11/15/19	62 Ea	0 Ea	62 Ea	\$2.25/Ea	\$139.50

Plex 5/17/19 11:41 AM Dart.Guerin.Kimberle



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1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043487



Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
27	195300	D3275-1P			Crossbolt Spacer : as per Dwg D3275-1 RevA1	Firmed	-	2/14/20	62 Ea	0 Ea	62 Ea	\$2.25/Ea	\$139.50
28	195311	D3275-1P			Crossbolt Spacer : as per Dwg D3275-1 RevA1	Firmed	-	5/15/20	62 Ea	0 Ea	62 Ea	\$2.25/Ea	\$139.50
29	195278	D5518-1P			Crossbolt Spacer : as per Dwg D5518-1 RevA	Firmed	-	9/6/19	50 Ea	0 Ea	50 Ea	\$2.20/Ea 6.75 \$ VS	\$110.00
30	195290	D5518-1P			Crossbolt Spacer : as per Dwg D5518-1 RevA	Firmed	-	11/15/19	50 Ea	0 Ea	50 Ea	\$2.20/Ea	\$110.00
31	195301	D5518-1P			Crossbolt Spacer : as per Dwg D5518-1 RevA	Firmed	-	2/14/20	50 Ea	0 Ea	50 Ea	\$2.20/Ea	\$110.00
32	195312	D5518-1P			Crossbolt Spacer : as per Dwg D5518-1 RevA	Firmed	-	5/15/20	50 Ea	0 Ea	50 Ea	\$2.20/Ea	\$110.00
33	195279	D4202-1P			Spacer : as per Dwg D4202-1 RevD	Firmed	-	9/6/19	750 Ea	0 Ea	750 Ea	\$3.10/Ea 4.34 \$ VS	\$2,325.00
34	195291	D4202-1P			Spacer : as per Dwg D4202-1 RevD	Firmed	-	11/15/19	750 Ea	0 Ea	750 Ea	\$3.10/Ea	\$2,325.00
35	195302	D4202-1P			Spacer : as per Dwg D4202-1 RevD	Firmed	-	2/14/20	750 Ea	0 Ea	750 Ea	\$3.10/Ea	\$2,325.00

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Hawkesbury, ON
K6A 1K7
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PURCHASE ORDER

POHB043487



Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
36	195313	D4202-1P			Spacer : as per Dwg D4202-1 RevD	Firmed	-	5/15/20	750 Ea	0 Ea	750 Ea	\$3.10/Ea	\$2,325.00
37	195280	D4720-1P			Spacer : as per Dwg D4720-1 RevB	Firmed	-	9/6/19	250 Ea	0 Ea	250 Ea	\$3.00/Ea 2.40\$ us	\$750.00
38	195292	D4720-1P			Spacer : as per Dwg D4720-1 RevB	Firmed	-	11/15/19	250 Ea	0 Ea	250 Ea	\$3.00/Ea	\$750.00
39	195303	D4720-1P			Spacer : as per Dwg D4720-1 RevB	Firmed	-	2/14/20	250 Ea	0 Ea	250 Ea	\$3.00/Ea	\$750.00
40	195314	D4720-1P			Spacer : as per Dwg D4720-1 RevB	Firmed	-	5/15/20	250 Ea	0 Ea	250 Ea	\$3.00/Ea	\$750.00
41	195281	D4686-1P			Spacer : as per Dwg D4686-1 RevB	Firmed	-	9/6/19	75 Ea	0 Ea	75 Ea	\$3.75/Ea 7.65\$ us	\$281.25
42	195293	D4686-1P			Spacer : as per Dwg D4686-1 RevB	Firmed	-	11/15/19	75 Ea	0 Ea	75 Ea	\$3.75/Ea	\$281.25
43	195304	D4686-1P			Spacer : as per Dwg D4686-1 RevB	Firmed	-	2/14/20	75 Ea	0 Ea	75 Ea	\$3.75/Ea	\$281.25
44	195315	D4686-1P			Spacer : as per Dwg D4686-1 RevB	Firmed	-	5/15/20	75 Ea	0 Ea	75 Ea	\$3.75/Ea	\$281.25
Grand Total:												\$26,938.00	



Dart Aerospace Ltd.
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Hawkesbury, ON
K6A 1K7
Canada

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PURCHASE ORDER
POHB043487



Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 5/17/19 11:41 AM Dart.Guerin.Kimberley

E.T.M. INDUSTRIES INC.
310 HALL AVENUE
BOX 610
RENFREW, ON K7V 4E7
Canada

Ph: 613-432-6136

Fax: 613-432-8212

Pack List

Number: 143956

Date: 29-Aug-19

To

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

Ship To

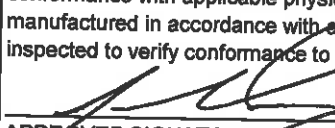
Patrick Lussier
DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

Ph: 613-632-5200

Fax: 613-632-5246

Ph: 613-632-5200

Fax: 613-632-5246

Terms		Ship Via	
Net 30 days			
Quantity	Description		
✓ 200 each	Part: D3903-1P ✓ SPACER SO: 25664	Rev: B	Line: 9
PO: POHB043487 ✓			
lot # 107185			
CERTIFICATE OF COMPLIANCE: "I hereby certify that the material described above is in conformance with applicable physical and dimensional specifications; that it was manufactured in accordance with applicable process specifications; and has been inspected to verify conformance to those specifications."  APPROVED SIGNATORY (QUALITY ASSURANCE) DAS 81 9-89 F-7761 35192211 RECEIVED SEP 04 2019 DART AEROSPACE LTD.			

1. Part Number D3903-1P	2. Part Name SPACER	3. Serial Number N/A	4. FAI Number N/A
5. Part Revision Level REV. B	6. Drawing Number D3903	7. Drawing Revision Level REV. B	8. Additional Changes N/A
9. Manufacturing Process Reference 107185	10. Organization Name ETM Industries Inc.	11. Supplier Code N/A	12. P.O. Number POHB043487, LN9
13. Detail FAI ☒	14. Full FAI ☒		
Assembly FAI ☐	Partial FAI ☐		
		Baseline Part Number including Revision Level	
		Reason for Partial FAI: Not Applicable	
N/A			
a) If above part number is a detail part only, go to Field 19			
b) If above part number is an assembly, go to the "Index" section below.			
INDEX of part numbers or sub assembly numbers required to make the assembly noted above.			
15. Part Number	16. Part Name	17. Part Serial Number	18. FAI Report Number
N/A	N/A	N/A	N/A

1) Signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.	
2) Also indicate if the FAI is complete per Section 5.4: ☒ FAI Complete ☐ FAI Not Complete	
19. Signature Mike Morin	20. Date 8/27/19
21. Reviewed by	22. Date
23. Customer Approval	24. Date

ETM Industries Inc

Page 2 of 3

AS9102 Revision B First Article Inspection

Form 2: Product Accountability – Raw Material, Specifications and Special Process(es),
Functional Testing

1. Part Number D3903-1P	2. Part Name SPACER	3. Serial Number N/A	4. FAI Report Number N/A		
5. Material or Process – Name	6. Specification Number	7. Code	8. Special Process Supplier Code	9. Customer Approval Verification (Yes/No/N/A)	10. Certificate of Conformance Number
MAKE FROM; ALUMINUM SEAMLESS TUBING	6061-T6 OR 6061-T62 ALUMINUM SEAMLESS TUBING 0.375 OD x 0.058 WALL PER WW-T-700/6 OR AMS 4080 OR AMS 40820OR QQ-A-200/8 OR QQ-A-225/8 OR ASTM B210 OR ASTM B241.(REF DART SPEC 6061T0.31W.058)	N/A	N/A	N/A	KAISER ALUMINUM FABRICATED PRODUCTS: Cert#F00298040
11. Functional Test Procedure Number	12. Acceptance report number, if applicable				
Not Applicable	Not Applicable				
13. Comments					
14. Prepared By Mike Morin				15. Date 8/27/19	

1. Part Number		2. Part Name		3. Serial Number		4. FAI Report	
D3903-1P		SPACER		N/A		N/A	
Characteristic Accountability				Inspection / Test Results			
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents
1	SHEET 1of1	N/A	6061-T6 OR 6061-T62 ALUMINUM SEAMLESS TUBING 0.375 OD x 0.058 WALL PER WW-T-700/6 OR AMS 4080 OR AMS 408200R QQ-A-200/8 OR QQ-A-225/8 OR ASTM B210 OR ASTM B241.(REF DART SPEC 6061T0.31W.058)	ACCEPT	KAISER ALUMINUM FABRICATED PRODUCTS: Cert#F00298040	N/A	KAISER C of C #F00298040
2	SHEET 1of1	N/A	TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED	ACCEPT	VERIFY	N/A	N/A
3	SHEET 1of1	N/A	UNITS: INCHES UNLESS OTHERWISE NOTED	ACCEPT	VERIFY	N/A	N/A
4	SHEET 1of1	N/A	BREAK SHARP EDGES: 0.005 TO 0.010 MAX	ACCEPT	VERIFY	N/A	N/A
5	SHEET 1of1	N/A	4.080 ±0.010	4.0905	Vernier		
6	SHEET 1of1	N/A	0.030 ±0.010 x 45 = 1/2	0.0315 x 45.21	Optical Comparator	N/A	N/A
7	SHEET 1of1	N/A	✓ 0.375 ±0.010 REF	0.3756	Micrometer	N/A	N/A
8	SHEET 1of1	N/A	✓ 0.259 ±0.010 REF	0.2595	Vernier	N/A	N/A

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

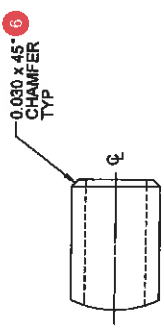
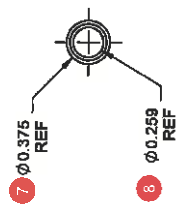
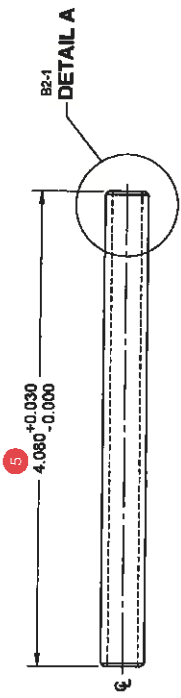
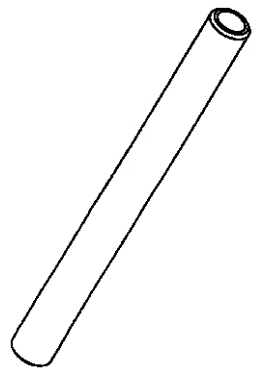
12. Prepared By

Mike Morin

13. Date

8/27/19

1 2 3 4 5 6 7 8



DETAIL A
SCALE: C3-1

D3903-1 SPACER

CONTROLLED COPY

RELEASED
10/17/2015

- NOTES:**
- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM SEAMLESS TUBING 0.375" OD x 0.058" WALL PER WW-T-700/6 OR AMS 4080 OR QQ-A-200/6 OR QQ-A-225/8 OR ASTM B210 OR ASTM B241 (REF DART SPEC. M6061T0.313W.058)
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.003 TO 0.010 MAX
 - 6) IDENTIFICATION: NONE
 - 7) WEIGHT: 0.02 lbs

B	CORRECT TYPE	Ø 0.375 WAS Ø 0.313 (ZN AG-1)	RF	RF	09.06.30
A	NEW ISSUE		RF	BY	DATE
REV.	DESIGN	RF	RF	BY	DATE
DRAWN	CHECKED	RF	RF	BY	DATE
MFG. APPR.	APPROVED	RF	RF	BY	DATE
DE APPR.	DATE	09.06.30			
DESCRIPTION					
DART AEROSPACE USA, INC.					
PORT HADLOCK, WA					
DRAWING NO. D3903					
REV. B					
SHEET 1 OF 1					
TITLE SPACER					
SCALE NTS					
COPYRIGHT © 2009 BY DART AEROSPACE USA, INC.					
THIS DOCUMENT IS UNCLASSIFIED AND IS AVAILABLE TO THE PUBLIC WITHOUT LIMITATION.					
ALL RIGHTS ARE RESERVED BY DART AEROSPACE USA, INC.					

KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
8573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: M49399774-1		CUSTOMER PART NUMBER: 41952		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 228138	LINE ITEM: 001	SHIP DATE: 04/05/2019	KAISER LOT NUMBER: F00298040	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 1779.000 LB	QUANTITY: 1959.000 PCS	EA/LN NUMBER: 235	DRAWN PART THICKS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 1235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA			SHIP TO: TW METALS INC 130 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

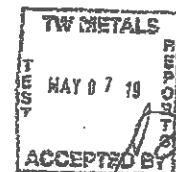
REFERENCE	DASE#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00298040	0001	0001	48.9	38.5	17.0	N/A	N/A	N/A
F00298040	0002	0001	48.8	38.5	17.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ba	Tot
Maximum	0.10	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.10	0.00	0.15	0.00	0.60	0.01	0.00	0.00	NA	NA	NA	0.00	0.00
03023A	.09	.29	.22	.05	.99	.01	.06	.03	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.3750"; Wall: 0.0500"; Round @
AMS4082P AMS-WW-T-700/6C APTV B010-12
WE TAKE EXCEPTION TO PARA. 5.2.1.1. FOR AMS4082P, WAS NOT OILED.
This Product Complies to FAR BAA, 52.225-5 (BUY AMERICAN ACT- SUPPLIES), DEARS BAA
COMPLIES TO DIN EN 10204 JAN 2006
No Weld Repair. Mercury Free.



DAS
81
9-89

Miscellaneous Notes

MANUFACTURED IN USA METTED IN 3P
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-5 (BUY AMERICAN ACT- SUPPLIES), DEARS BAA
(DEARS 52.225-7001 BUY AMERICAN ACT- SUPPLIES), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

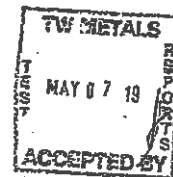
CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

TESTING LOCATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser) hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgment form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Nathaniel Stevens, Quality Manager



Plant Serial: 00031526
Kaiser Order Number: 228138
Line Item: 001